MOONS'
moving in better ways

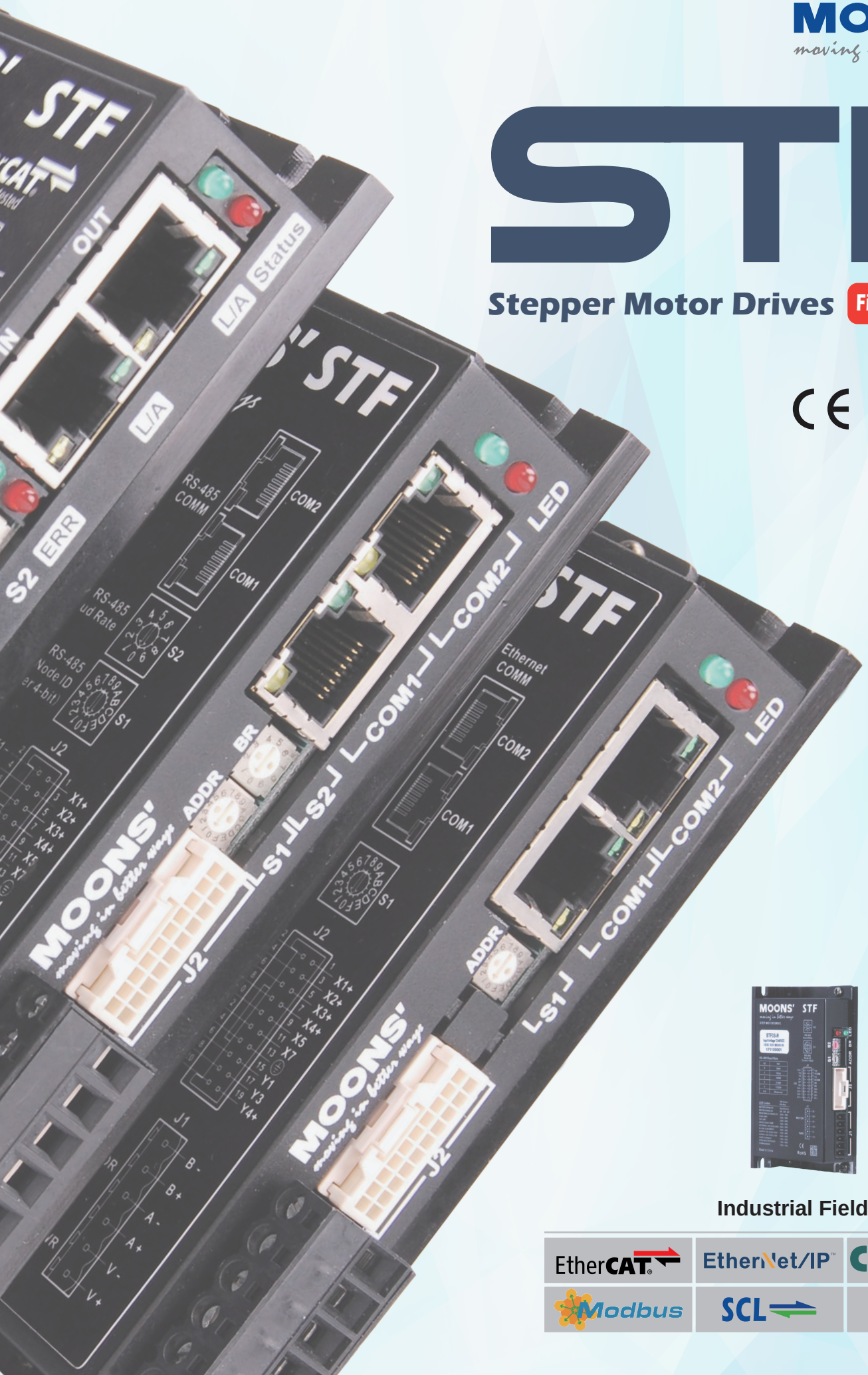
STF

STEPPER DRIVES

Stepper Motor Drives

Field bus control

CE RoHS Compliant





Industrial Field Bus Control

EtherCAT | EtherNet/IP | CANopen | Modbus | SCL | Q

Features

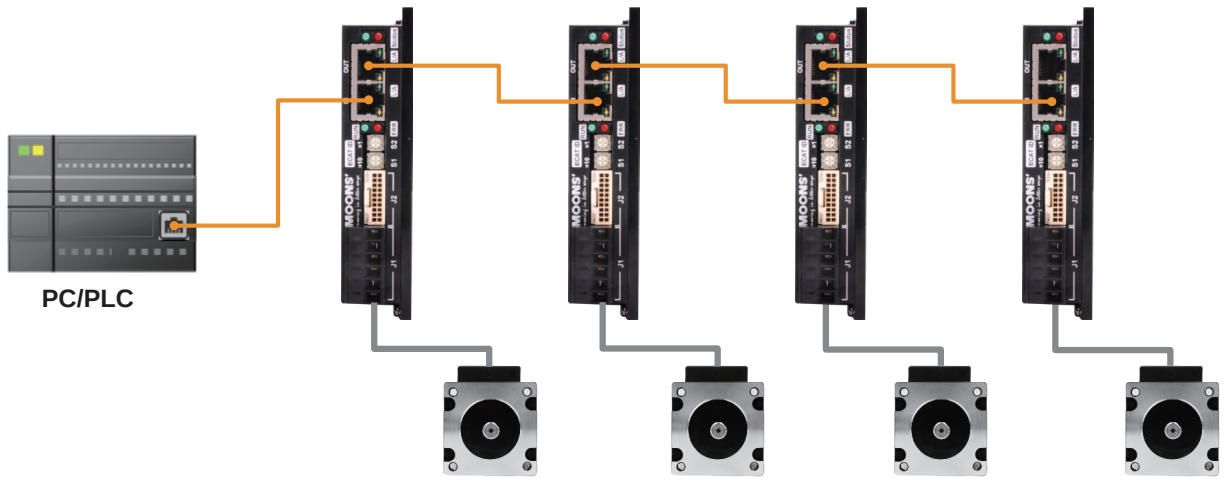
Intelligent field bus control

The STF series are high performance fieldbus control stepper drive which also integrates with built-in motion controller. The drives can be controlled by SCL, Modbus/RTU, CANopen, eSCL, Modbus/TCP, EtherNet/IP or EtherCAT in real time. Motion profiles can also be programmed and stored in drives(Q Program) and then be triggered by fieldbus commands.

Host Control

- Accepts commands from host PC or PLC
- Real time control
- Multi-axes capable

CANopen 112-axis -max-
Modbus SCL RS-485/422 32-axis -max-
EtherCAT EtherNet/IP eSCL



Stand-Alone Programmable

- Stored program execution
- Multi-tasking
- Conditional processing
- Math functions
- Data registers

Safe & Convenient

- Support communication and motor power cables disconnection protection

——***Make equipments safer***

- Support on-line configuration by fieldbus

——***Make operation more convenient***

Abundant and flexible interface

- 8 Digital Inputs, 4 Digital Outputs

——***Support for more feature settings***

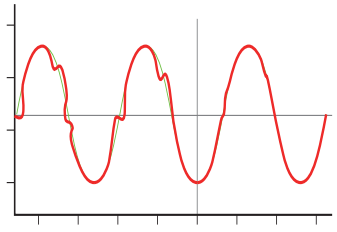
- Dual Port RJ45 Bus Conmmunication Control

——***Support daisy chain connection***

Anti-Resonance

-Provides better motor performance and higher speeds

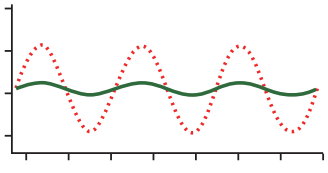
Step motor systems have a natural tendency to resonate at certain speeds. The STF drives automatically calculate the system's natural frequency and apply damping to the control algorithm. This greatly improves midrange stability, allows higher speeds and greater torque utilization, and also improves settling times.



Torque Ripple Smoothing

-Produces smoother motion at low speed running

All step motors have an inherent low speed torque ripple that can affect the motion profile of the motor. By analyzing this torque ripple the system can apply a negative harmonic to counter this effect. This gives the motor much smoother motion at low speed.



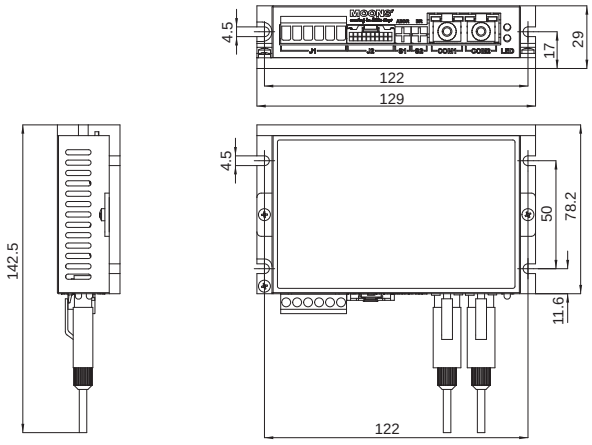
Auto Setup & Self Test

At start-up the drive measures motor parameters, including the resistance and inductance, then uses this information to optimize the system performance. The drive can also detect open and short circuits.

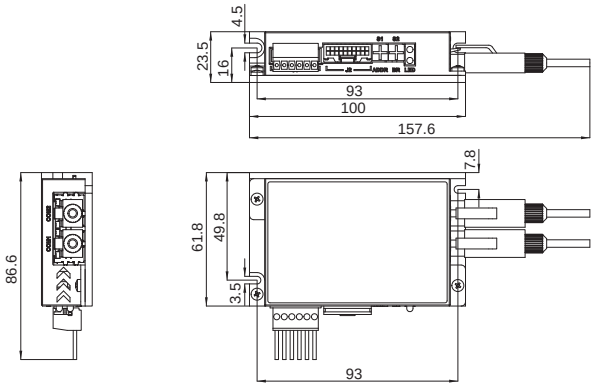
Power Amplifier	
Amplifier Type	Dual H-Bridge, 4 Quadrant
Current Control	PWM at 20 KHz
Output Current	STF03: 0.1 - 3.0A/phase (peak-of-sine) in 0.01 amp increments
	STF05: 0.1 - 5.0A/phase (peak-of-sine) in 0.01 amp increments
	STF06: 0.1 - 6.0A/phase (peak-of-sine) in 0.01 amp increments
	STF10: 0.1 - 10.0A/phase (peak-of-sine) in 0.01 amp increments
Input Voltage Range	STF03: 12 - 48VDC
	STF05: 24 - 48VDC
	STF06: 12 - 48VDC
	STF10: 24 - 70VDC
Maximum Input Voltage Range	STF03: 11 - 53VDC
	STF05: 18 - 53VDC
	STF06: 11 - 53VDC
	STF10: 18 - 75VDC
Protection	Over voltage, under voltage, over temp, over current, open winding, communication cable disconnection
Idle Current Reduction	Reduction range of 0 - 90% of running current after a delay selectable in milliseconds
Controller	
Anti-Resonance	Raises the system-damping ratio to eliminate midrange instability and allow stable operation throughout the speed range of the motor
Torque Ripple Smoothing	Allows for fine adjustment of phase current waveform harmonic content to reduce low-speed torque ripple in the range of 0.25 to 1.5 rps
Auto Test & Auto Setup	Auto test and setup at power on (ie. motor resistance and inductance) to optimize your system performance.
Non-Volatile Storage	Configurations are saved in FLASH memory on-board the DSP
Operation Mode	-R Type: SCL, Q, Modbus/RTU
	-C Type: CANopen (CiA301 and CiA402 protocol). Q program can also be triggered via CANopen Command
	-D Type: eSCL, Q, Modbus/TCP
	-IP Type: EtherNet/IP, Q program also can be triggered via EtherNet/IP Command
	-EC Type: EtherCAT (CoE) with full support of CiA402, Support PP, PV, CSP&HM mode and Q mode
Digital Input	8 digital inputs
	X1, X2: Optically isolated, differential, 5-24VDC for high level voltage, minimum pulse width = 250ns, maximum pulse frequency = 2MHz
	X3, X4: Optically isolated, differential, 5-24VDC for high level voltage, minimum pulse width = 100μs, maximum pulse frequency = 5KHz
	X5 ~ X8: Optically isolated, single-ended, 5-24VDC for high level voltage, minimum pulse width = 100μs, maximum pulse frequency = 5KHz
Digital Output	4 digital outputs Y1 ~ Y4: Optically isolated, maximum voltage 30V, maximum sinking or sourcing current 100mA
Communication Port	-R Type: Dual port RS-485 (RJ45 connector)
	-C Type: Dual port CANopen (RJ45 connector) RS-232 included
	-D Type: Dual port Ethernet (RJ45 connector)
	-IP Type: Dual port Ethernet (RJ45 connector)
	-EC Type: Dual port Ethernet(RJ45 connector)and RS-232(RS-232 serial port for configuration)
Physical	
Ambient Temperature	0 - 40°C when mounted to a suitable heat sink
Humidity	90% non-condensing
Mass	STF03: 0.36kg
	STF05: 0.4kg
	STF06: 0.36kg
	STF10: 0.4kg

Mechanical Dimensions (Unit:mm)

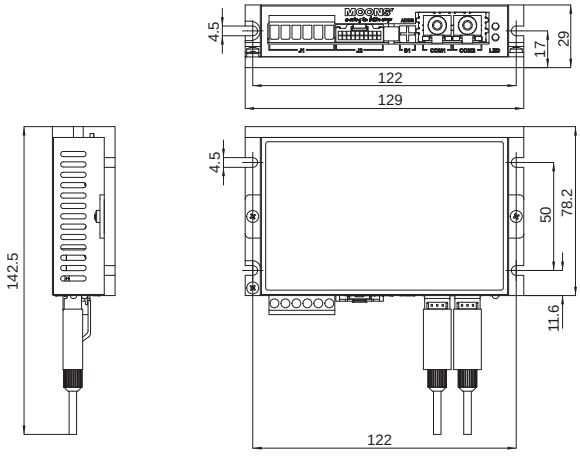
STF05/10-R, STF05/10-C



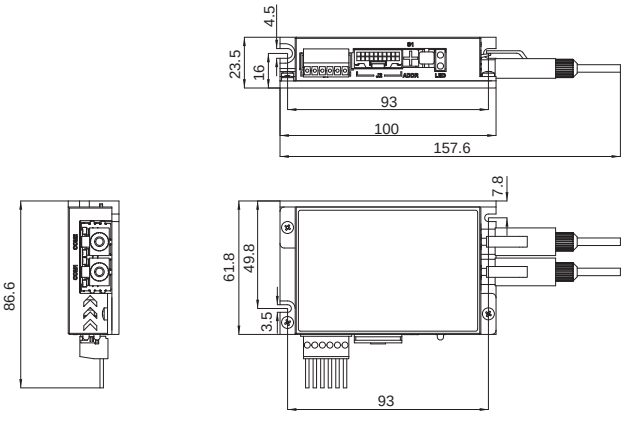
STF03/06-R, STF03/06-C



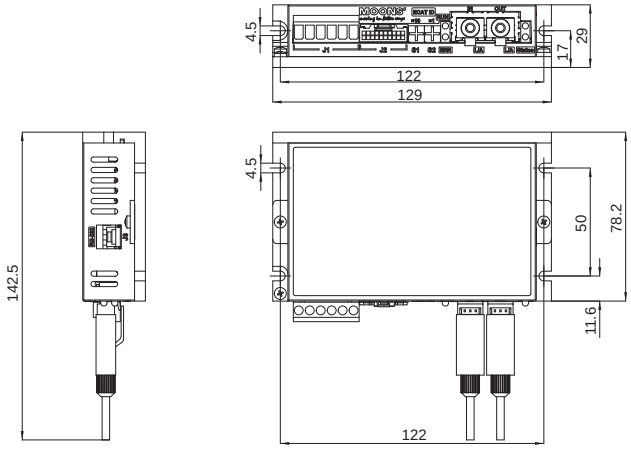
STF05/10-D, STF05/10-IP



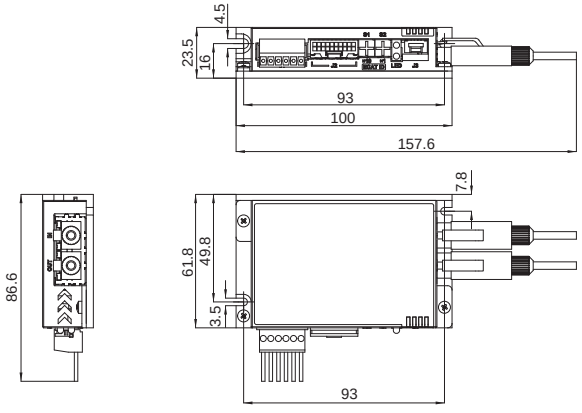
STF03/06-D, STF03/06-IP



STF05/10-EC

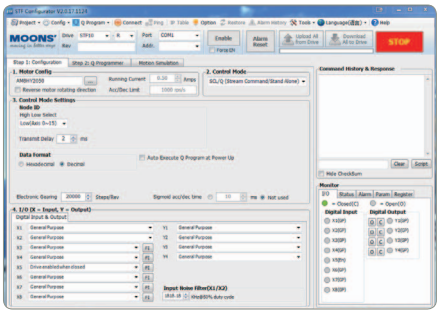


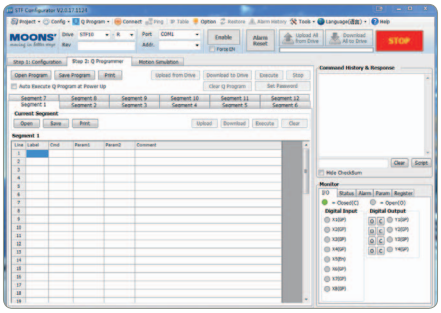
STF03/06-EC



Software

STF Configurator

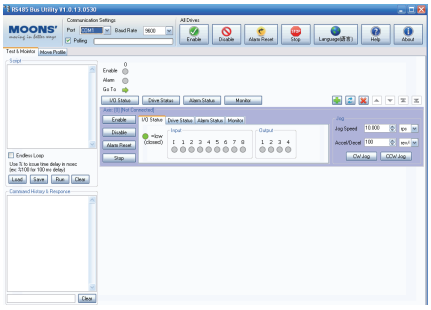




Software Features

- Intuitive interface
- Drive status and alarm monitoring
- Built-in SCL or eSCL Terminal
- Built-in Q Program
- Motion simulation

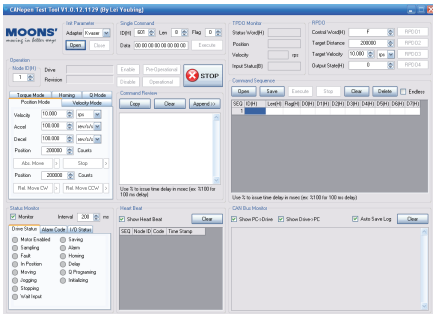
RS485 Bus Utility



Software Features

- Stream SCL commands from the command line
- Simple interface with powerful capability
- Easy setup with RS-485 for 32 axis network motion control
- Monitoring Status of I/O, drive, alarm and the other nine most useful motion parameters
- Write and save SCL command scripts
- Online help integrated
- Supports all RS-485 drives

CANopen Test Tool



Software Features

- Friendly User Interface
- Multiple operation Mode Support
- Multi-Thread, High Performance
- CAN bus monitor and log function
- Kvaser/PEAK/ZLG adapter support

FREE DOWNLOAD

Our software and user manual can be downloaded from our website:

www.moonsindustries.com

All software applications run on Windows 7/8/10/XP(Service Pack 3) 32-bit or 64-bit

Standard type step motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)※	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM8HY2050-01N	Single Shaft	4	29.5	0.02	0.35	1.6	0.04	500VAC/1Minute
AM8HY2050-02N	Double Shaft	4						
AM8HY4043-01N	Single Shaft	4	46.5	0.042		4.2	0.09	
AM8HY4043-02N	Double Shaft	4						
AM11HS1008-07	Single Shaft	4	31	0.072	1.0	9	0.1	
AM11HS3007-02	Single Shaft	4	40	0.082		12	0.15	
AM11HS5008-01	Single Shaft	4	51	0.125		18	0.2	
AM14HS10A0-01	Single Shaft	4	27.3	0.14	1.0	12	0.15	
AM14HS10A0-02	Double Shaft	4						
AM14HS30A0-01	Single Shaft	4	36	0.23		20	0.21	
AM14HS30A0-02	Double Shaft	4						
AM14HS50A0-01	Single Shaft	4	55.5	0.4		35	0.24	
AM14HS50A0-02	Double Shaft	4						
AM17HD4452-02N	Single Shaft	4	34.3	0.285	1.5	38	0.23	
AM17HD4452-01N	Double Shaft	4						
AM17HD2438-02N	Single Shaft	4	39.8	0.46	1.5	57	0.28	
AM17HD2438-01N	Double Shaft	4						
AM17HD6426-06N	Single Shaft	4	48.3	0.59	1.5	82	0.36	
AM17HD6426-05N	Double Shaft	4						
AM17HDB410-01N	Single Shaft	4	62.8	0.85	1.4	123	0.6	
AM17HDB410-02N	Double Shaft	4						
AM23HS0420-01	Single Shaft	4	41	0.72	1.8	135	0.42	
AM23HS0420-02	Double Shaft							
AM23HS2449-01	Single Shaft	4	54	1.25	1.8	260	0.6	
AM23HS2449-02	Double Shaft	4						
AM23HS3454-01	Single Shaft	4	76	2.1	1.8	460	1	
AM23HS3454-02	Double Shaft	4						
AM23HS0421-01	Single Shaft	4	41	0.72	3.7	135	0.42	
AM23HS0421-02	Double Shaft	4						
AM23HS2450-01	Single Shaft	4	54	1.25	3.7	260	0.6	
AM23HS2450-02	Double Shaft	4						
AM23HS3455-01	Single Shaft	4	76	2.1	3.7	460	1	
AM23HS3455-02	Double Shaft	4						
AM23HS04A0-01	Single Shaft	4	39	0.82	1.8	105	0.4	
AM23HS04A0-02	Double Shaft	4						
AM23HS84A0-01	Single Shaft	4	55	1.5	1.8	215	0.6	
AM23HS84A0-02	Double Shaft	4						
AM23HSA4A0-01	Single Shaft	4	77	2.3	1.8	365	1	
AM23HSA4A0-02	Double Shaft	4						
AM23HS04B0-01	Single Shaft	4	39	0.82	3.7	105	0.4	
AM23HS04B0-02	Double Shaft	4						
AM23HS84B0-01	Single Shaft	4	55	1.5	3.7	215	0.6	
AM23HS84B0-02	Double Shaft	4						
AM23HSA4B0-01	Single Shaft	4	77	2.3	3.7	365	1	
AM23HSA4B0-02	Double Shaft	4						
AM23HS04B0-03	Single Shaft	4	39	0.82	3.7	105	0.4	
AM23HS04B0-04	Double Shaft	4						
AM23HS84B0-03	Single Shaft	4	55	1.5	3.7	215	0.6	
AM23HS84B0-04	Double Shaft	4						
AM23HSA4B0-03	Single Shaft	4	77	2.3	3.7	365	1	
AM23HSA4B0-04	Double Shaft	4						
AM24HS2402-08N	Single Shaft	4	54	1.57	4.0	450	0.83	
AM24HS2402-11N	Double Shaft	4						
AM24HS5401-10N	Single Shaft	4	85	3.2	4.0	900	1.4	
AM24HS5401-24N	Double Shaft	4						
AM34HD0404-08	Single Shaft	4	66.5	3.7	6.3	1100	1.6	
AM34HD0404-09	Double Shaft	4						
AM34HD1404-06	Single Shaft	4	96	6.7	6.3	1850	2.7	
AM34HD1404-07	Double Shaft	4						
AM34HD2403-07	Single Shaft	4	125.5	9.4	5.6	2750	3.8	
AM34HD2403-08	Double Shaft	4						
AM34HD3402-01	Single Shaft	4	156	11.5	5.6	4400	5.2	
AM34HD3402-02	Double Shaft	4						

※ 1. The rated current of the motor is RMS value. 2. The output current of Moons' drive is the peak of sine value.
3. Drive maximum peak current = motor rated current x1.4.

Recommended Motors

IP65 type motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)※	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM23HS2450-03	IP65 Motor	4	61.7	1.25	3.7	260	0.6	500VAC/1Minute
AM23HS3455-05	IP65 Motor	4	83.7	2.2	3.7	460	1	
AM24HS5401-44N	IP65 Motor	4	94.5	3.2	4.0	900	1.4	
AM34HD1404-13	IP65 Motor	4	98	6.7	6.3	1850	2.7	
AM34HD2403-13	IP65 Motor	4	127.5	9.4	5.6	2750	3.8	

※ 1. The rated current of the motor is RMS value. 2. The output current of Moons' drive is the peak of sine value.
3. Drive maximum peak current = motor rated current x1.4.

With brake type motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)※	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM17HD4452-BR01	Brake Motor	4+2	60.3	0.285	1.5	38	0.38	500VAC/1Minute
AM17HD2438-BR01	Brake Motor	4+2	65.8	0.46	1.5	57	0.43	
AM17HD6426-BR01	Brake Motor	4+2	74.3	0.59	1.5	82	0.51	
AM17HDB410-BR01	Brake Motor	4+2	88.8	0.85	1.4	123	0.75	
AM23HS04B0-BR01	Brake Motor	4+2	80	0.82	3.7	105	1.5	
AM23HS84B0-BR01	Brake Motor	4+2	96	1.5	3.7	215	1.5	
AM23HSA4B0-BR01	Brake Motor	4+2	118	2.3	3.7	365	1.5	
AM24HS2402-BR01	Brake Motor	4+2	95	1.57	4.0	450	1.03	
AM24HS5401-BR01	Brake Motor	4+2	126	3.2	4.0	900	1.6	
AM34HD0404-BR01	Brake Motor	4+2	118.5	3.7	6.3	1100	2.2	
AM34HD1404-BR01	Brake Motor	4+2	148	6.7	6.3	1850	3.3	
AM34HD2403-BR01	Brake Motor	4+2	177.5	9.4	5.6	2750	4.4	

※ 1. The rated current of the motor is RMS value. 2. The output current of Moons' drive is the peak of sine value.
3. Drive maximum peak current = motor rated current x1.4.

Encoder type motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)※	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM17HD4452-E1000D	External Encoder Motor	4	34.3	0.25	1.5	38	0.24	500VAC/1Minute
AM17HD2438-E1000D	External Encoder Motor	4	39.8	0.4	1.5	57	0.29	
AM17HD6426-E1000D	External Encoder Motor	4	48.3	0.5	1.5	82	0.37	
AM17HDB410-E1000D	External Encoder Motor	4	62.8	0.85	1.4	123	0.61	
AM23HS0420-E1000D	External Encoder Motor	4	41	0.72	1.8	135	0.43	
AM23HS2449-E1000D	External Encoder Motor	4	54	1.25	1.8	260	0.61	
AM23HS3454-E1000D	External Encoder Motor	4	76	2.1	1.8	460	1.01	
AM23HS0421-E1000D	External Encoder Motor	4	41	0.72	3.7	135	0.43	
AM23HS2450-E1000D	External Encoder Motor	4	54	1.25	3.7	260	0.61	
AM23HS3455-E1000D	External Encoder Motor	4	76	2.1	3.7	460	1.01	
AM24HS2402-E1000D	External Encoder Motor	4	54	1.57	4.0	450	0.84	
AM24HS5401-E1000D	External Encoder Motor	4	85	3.2	4.0	900	1.41	
AM34HD0404-E1000D	External Encoder Motor	4	66.5	3.7	6.3	1100	1.61	
AM34HD1404-E1000D	External Encoder Motor	4	96	6.7	6.3	1850	2.71	
AM34HD2403-E1000D	External Encoder Motor	4	125.5	9.4	5.6	2750	3.81	

※ 1. The rated current of the motor is RMS value. 2. The output current of Moons' drive is the peak of sine value.
3. Drive maximum peak current = motor rated current x1.4.

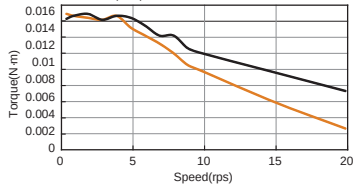
Gearbox type motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)※	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM17HD4452-PG05	5 speed reducer motor	4	101.8	1.25	1.5	950	0.55	
AM17HD4452-PG10	10 speed reducer motor	4	101.8	2.5	1.5	3800	0.55	
AM17HD4452-PG20	20 speed reducer motor	4	114.8	5	1.5	15200	0.63	
AM17HD2438-PG05	5 speed reducer motor	4	107.3	2	1.5	1425	0.6	
AM17HD2438-PG10	10 speed reducer motor	4	107.3	4	1.5	5700	0.6	
AM17HD2438-PG20	20 speed reducer motor	4	120.3	8	1.5	22800	0.68	
AM17HD6426-PG05	5 speed reducer motor	4	115.8	2.5	1.5	2050	0.68	
AM17HD6426-PG10	10 speed reducer motor	4	115.8	5	1.5	8200	0.68	
AM17HD6426-PG20	20 speed reducer motor	4	128.8	10	1.5	32800	0.76	
AM17HDB410-PG05	5 speed reducer motor	4	130.3	4.25	1.4	3075	0.92	
AM17HDB410-PG10	10 speed reducer motor	4	130.3	8.5	1.4	12300	0.92	
AM17HDB410-PG20	20 speed reducer motor	4	143.3	17	1.4	49200	1	
AM23HS04B0-PG05	5 speed reducer motor	4	112.5	4.1	3.7	2625	1.23	
AM23HS04B0-PG10	10 speed reducer motor	4	112.5	8.2	3.7	10500	1.23	
AM23HS04B0-PG20	20 speed reducer motor	4	125.5	16.4	3.7	42000	1.44	
AM23HS84B0-PG05	5 speed reducer motor	4	128.5	7.5	3.7	5375	1.43	
AM23HS84B0-PG10	10 speed reducer motor	4	128.5	15	3.7	21500	1.43	
AM23HS84B0-PG20	20 speed reducer motor	4	141.5	30	3.7	86000	1.64	
AM23HSA4B0-PG05	5 speed reducer motor	4	150.5	11.5	3.7	9125	1.83	500VAC/1Minute
AM23HSA4B0-PG10	10 speed reducer motor	4	150.5	23	3.7	36500	1.83	
AM23HSA4B0-PG20	20 speed reducer motor	4	163.5	46	3.7	146000	2.07	
AM24HS2402-PG05	5 speed reducer motor	4	127.5	6	4	11250	1.66	
AM24HS2402-PG10	10 speed reducer motor	4	127.5	12	4	45000	1.66	
AM24HS2402-PG20	20 speed reducer motor	4	140.5	24	4	180000	1.87	
AM24HS5401-PG05	5 speed reducer motor	4	158.5	12.5	4	22500	2.23	
AM24HS5401-PG10	10 speed reducer motor	4	158.5	25	4	90000	2.23	
AM24HS5401-PG20	20 speed reducer motor	4	171.5	50	4	360000	2.44	
AM34HD0404-PG05	5 speed reducer motor	4	170.5	15	6.3	27500	3.71	
AM34HD0404-PG10	10 speed reducer motor	4	170.5	30	6.3	110000	3.71	
AM34HD0404-PG20	20 speed reducer motor	4	188.5	60	6.3	440000	4.21	
AM34HD1404-PG05	5 speed reducer motor	4	200	25	6.3	46250	4.81	
AM34HD1404-PG10	10 speed reducer motor	4	200	50	6.3	185000	4.81	
AM34HD1404-PG20	20 speed reducer motor	4	218	100	6.3	740000	5.31	
AM34HD2403-PG05	5 speed reducer motor	4	229.5	35.5	5.6	68750	5.91	
AM34HD2403-PG10	10 speed reducer motor	4	229.5	71	5.6	275000	5.91	
AM34HD2403-PG20	20 speed reducer motor	4	247.5	142	5.6	1100000	6.41	

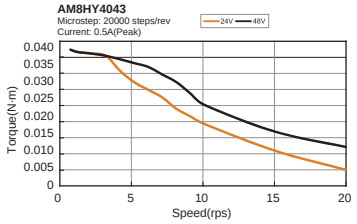
※ 1. The rated current of the motor is RMS value. 2. The output current of Moons' drive is the peak of sine value.
3. Drive maximum peak current = motor rated current x1.4.

Torque Curves

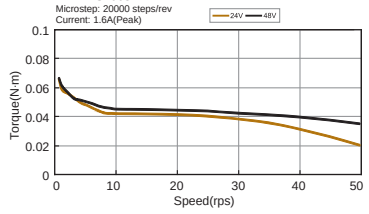
AM8HY2050
Microstep: 20000 steps/rev
Current: 0.5A(Peak)



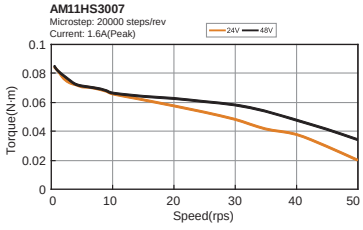
AM8HY4043
Microstep: 20000 steps/rev
Current: 0.5A(Peak)



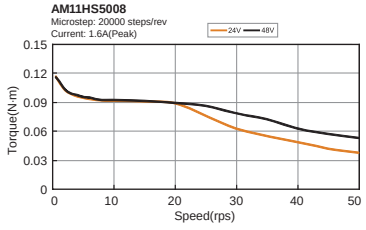
AM11HS1008
Microstep: 20000 steps/rev
Current: 1.6A(Peak)



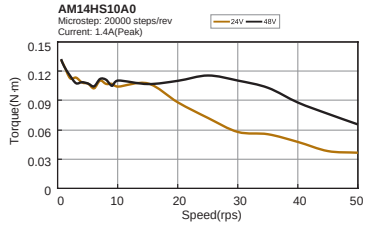
AM11HS3007
Microstep: 20000 steps/rev
Current: 1.6A(Peak)



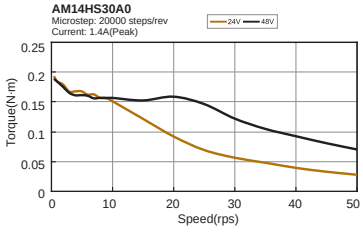
AM11HS5008
Microstep: 20000 steps/rev
Current: 1.6A(Peak)



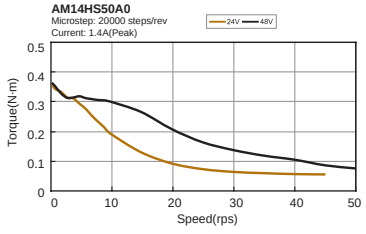
AM14HS10A0
Microstep: 20000 steps/rev
Current: 1.4A(Peak)



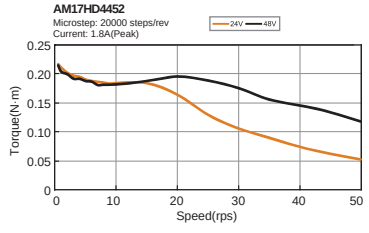
AM14HS30A0
Microstep: 20000 steps/rev
Current: 1.4A(Peak)



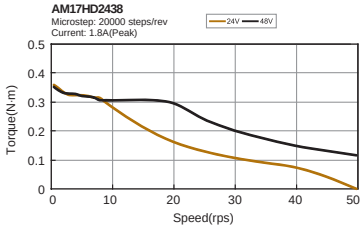
AM14HS50A0
Microstep: 20000 steps/rev
Current: 1.4A(Peak)



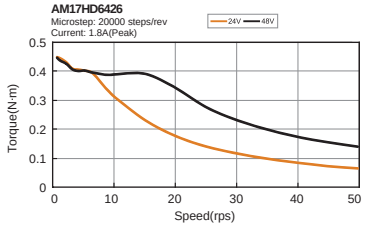
AM17HD4452
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



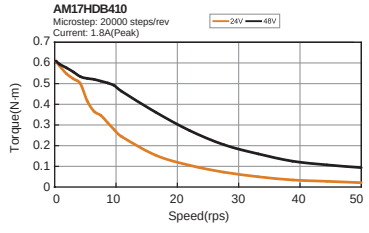
AM17HD2438
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



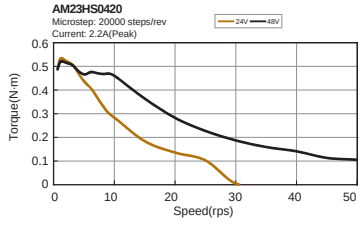
AM17HD6426
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



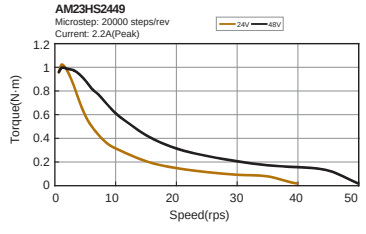
AM17HDB410
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



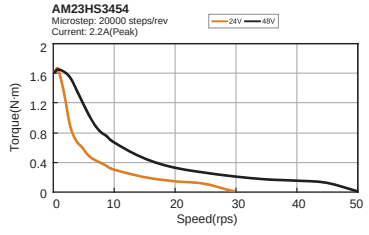
AM23HS0420
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



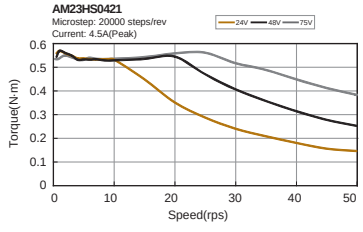
AM23HS2449
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



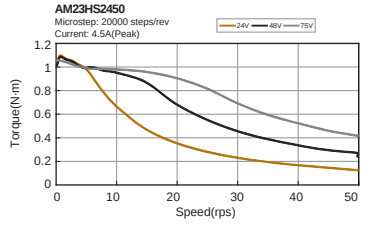
AM23HS3454
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



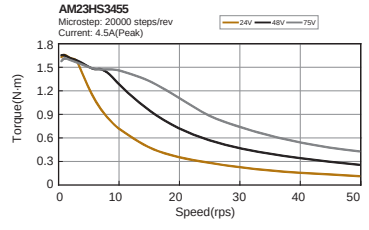
AM23HS0421
Microstep: 20000 steps/rev
Current: 4.5A(Peak)



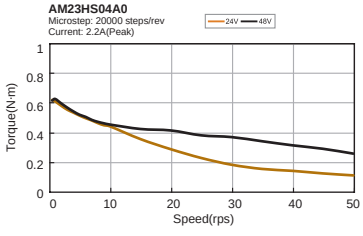
AM23HS2450
Microstep: 20000 steps/rev
Current: 4.5A(Peak)



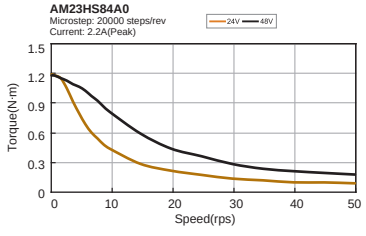
AM23HS3455
Microstep: 20000 steps/rev
Current: 4.5A(Peak)



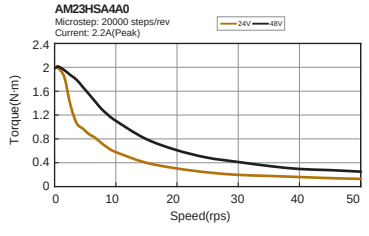
AM23HS04A0
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



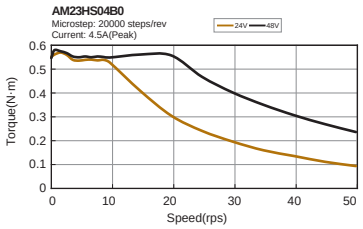
AM23HS84A0
Microstep: 20000 steps/rev
Current: 2.2A(Peak)

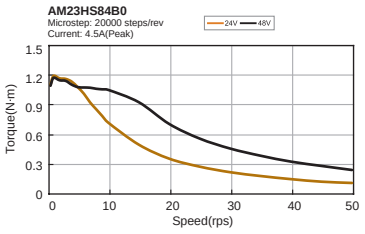


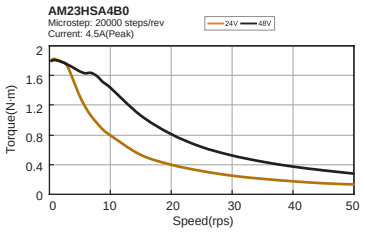
AM23HSA4A0
Microstep: 20000 steps/rev
Current: 2.2A(Peak)

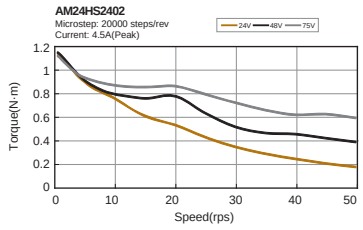


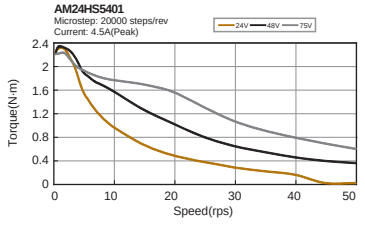
Torque Curves

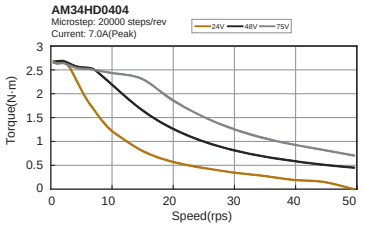


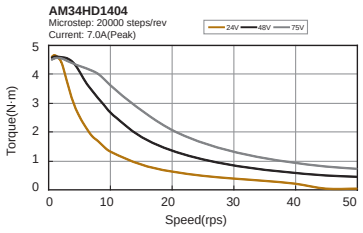


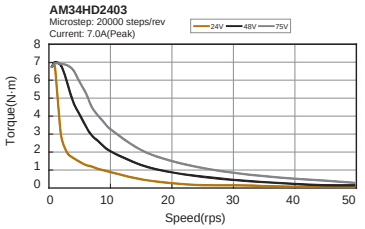


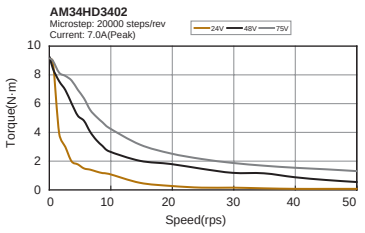








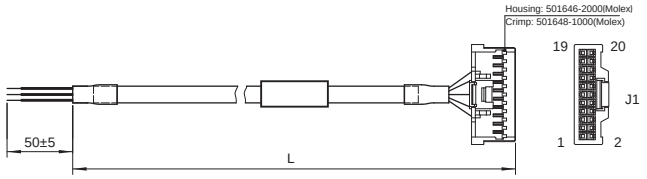




Accessories (Sold Separately)

I/O Cable

P/N	Length
1015-030	0.3m
1015-100	1m
1015-200	2m

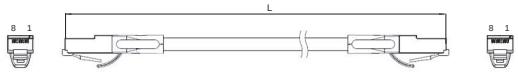


Pin No.	Assignment	Description	Color	Pin No.	Assignment	Description	Color
1	X1+	X1 Digital Input	Blue/White	11	X7	X7 Digital Input	Yellow
2	X1-		Blue/Black	12	X8	X8 Digital Input	Green
3	X2+	X2 Digital Input	Green/White	13	SHIELD	Shield	-
4	X2-		Green/Black	14	XCOM	X5-X8 Digital Input COM	Red
5	X3+	X3 Digital Input	Yellow/White	15	Y1	Y1Digital Output	Brown
6	X3-		Yellow/Black	16	Y2	Y2 Digital Output	Gray
7	X4+	X4 Digital Input	Orange/White	17	Y3	Y3 Digital Output	White
8	X4-		Orange/Black	18	YCOM	Y1-Y3 Digital Output COM	Black
9	X5	X5 Digital Input	Blue	19	Y4+	Y4 Digital Output	Purple/White
10	X6	X6 Digital Input	Purple	20	Y4-		Purple/Black

Bus Communication Daisy Chain Cable

Common Type	Shielded Type	Length
2012-030 *	2013-030	0.3m
2012-300	2013-300	3m

* 2012-030 is included in the drive package.



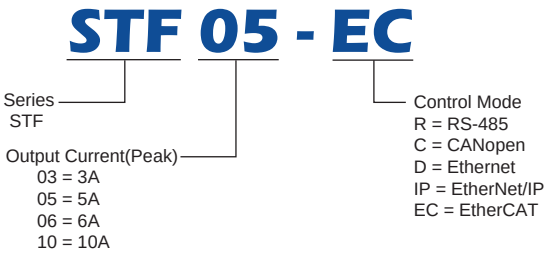
RC-880 Regeneration Clamp

RC-880 can clamp the regeneration and prevent the power supply and/or drive being damaged or destroyed. Connect the RC-880 between the power supply and the drive.

Max. Supply Voltage: 80V
Max. Output Current: 8A(rms)
Continuous Power: 50W



Numbering System



Ordering Information

Model	Current	Voltage	RS-485	Modbus/RTU	CANopen	Q Program
STF03-R	0.1 - 3.0 A	12 - 48 VDC	√	√		√
STF05-R	0.1 - 5.0 A	24 - 48 VDC	√	√		√
STF06-R	0.1 - 6.0 A	12 - 48 VDC	√	√		√
STF10-R	0.1 - 10.0 A	24 - 70 VDC	√	√		√
STF03-C	0.1 - 3.0 A	12 - 48 VDC			√	√
STF05-C	0.1 - 5.0 A	24 - 48 VDC			√	√
STF06-C	0.1 - 6.0 A	12 - 48 VDC			√	√
STF10-C	0.1 - 10.0 A	24 - 70 VDC			√	√

Model	Current	Voltage	Ethernet	Modbus/TCP	EtherNet/IP	EtherCAT	Q Program
STF03-D	0.1 - 3.0 A	12 - 48 VDC	√	√			√
STF05-D	0.1 - 5.0 A	24 - 48 VDC	√	√			√
STF06-D	0.1 - 6.0 A	12 - 48 VDC	√	√			√
STF10-D	0.1 - 10.0 A	24 - 70 VDC	√	√			√
STF03-IP	0.1 - 3.0 A	12 - 48 VDC	√		√		√
STF05-IP	0.1 - 5.0 A	24 - 48 VDC	√		√		√
STF06-IP	0.1 - 6.0 A	12 - 48 VDC	√		√		√
STF10-IP	0.1 - 10.0 A	24 - 70 VDC	√		√		√
STF03-EC	0.1 - 3.0 A	12 - 48 VDC				√	√
STF05-EC	0.1 - 5.0 A	24 - 48 VDC				√	√
STF06-EC	0.1 - 6.0 A	12 - 48 VDC				√	√
STF10-EC	0.1 - 10.0 A	24 - 70 VDC				√	√

Customer Service Center



400-820-9661

MOONS' Headquarter

168 Mingjia Road, Minhang District, Shanghai 201107, P.R. China

Domestic Offices

Shenzhen
Room 503, Building A7,Nanshan iPark,No.1001,Xueyuan Ave, Nanshan Dist, Shenzhen 518071, P.R. China

Beijing
Room 816, Tower B, China Electronics Plaza, 3 Danling Street, Haidian District, Beijing 100080, P.R. China

Nanjing
Room 1101-1102, Building 2， New Town Development Center， No.126 Tianyuan Road ， Moling Street， Jiangning District， Nanjing 211106, P.R. China

Qingdao
Room 1012, Zhuoyue Tower, No.16 Fengcheng Road, Shibei District, Qingdao 26000, P.R. China

Wuhan
Room 3001, World Trade Tower, 686 Jiefang Avenue, Jianghan District, Wuhan 430022, P.R. China

Chengdu
Room 1917, Western Tower, 19, 4th Section of South People Road, Wuhou District, Chengdu 610041, P.R. China

Xi'an
Room 1006, Tower D, Wangzuo International City, 1 Tangyan Road, Xi'an 710065, P.R. China

Ningbo
Room 309, Tower B, Taifu Plaza, 565 Jiangjia Road, Jiangdong District, Ningbo, 315040, P.R. China

Guangzhou
Room 4006, Tower B, China Shine Plaza, 9 Linhe Xi Road, Tianhe District, Guangzhou 510610, P.R. China

North America Company

MOONS' INDUSTRIES (AMERICA), INC. (Chicago)
1113 North Prospect Avenue, Itasca, IL 60143 USA

MOONS' INDUSTRIES (AMERICA), INC. (Boston)
36 Cordage Park Circle, Suite 310 Plymouth, MA 02360 USA

APPLIED MOTION PRODUCTS, INC.
404 Westridge Dr. Watsonville, CA 95076, USA

LIN ENGINEERING, INC.
16245 Vineyard Blvd., Morgan Hill, CA 95037

European Company

MOONS' INDUSTRIES (EUROPE) S.R.L.
Via Torri Bianche n.1 20871 Vimercate(MB) Italy

AMP & MOONS' AUTOMATION(GERMANY)GMBH
Borsenstrabe 14
60313 Frankfuit am Main Germany

South-East company

MOONS' INDUSTRIES (SOUTH–EAST ASIA) PTE. LTD.
33 Ubi Avenue 3 #08-23 Vertex Singapore 408868

Japan Company

MOONS' INDUSTRIES JAPAN CO., LTD.
Room 602, 6F, Shin Yokohama Koushin Building, 2-12-1, Shin-Yokohama, Kohoku-ku, Yokohama, Kanagawa, 222-0033, Janpan

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http://www.moons.com.cn
E-mail:ama-info@moons.com.cn

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